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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER

CHAN, RICHARD

ART UNIT

PAPER NUMBER

2618

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 09/528,126	Applicant(s) SATO ET AL.	
	Examiner RICHARD CHAN	Art Unit 2618	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 December 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☒ Claim(s) 10-11 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 10-11 have been considered but are moot in view of the new ground(s) of rejection.

Regarding applicant's arguments toward claim 1, the applicant claims that the Yokohama reference does not sufficiently teach the housing of the printed circuit board being configured by a resin housing covering the rear surface of the printed circuit board and a metal housing covering the front surface of the printed circuit board.

The examiner however points out to the applicant specifically Fig.1 of Yokohama wherein a metal shielding case covering the front surface of the printed circuit board in the mobile phone housing.

The examiner further points to Crowley back plating 34 Fig.2 (Col.3 line 48-52) wherein a metal back plating is used to permit the safe, shielded use of the telephone.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yokohama (0 522 538 A2) in view of Crowley et al. (US 5,493,702).

Consider claim 1 & 5. Yokohama teaches a radio terminal device (figs. 2) having:

- a portable telephone, the portable telephone including:

- a printed board having a front surface and a rear surface (fig. 2, item 11; col. 3, lines 20-22);

- an internal antenna disposed on a side of the rear surface of the printed board (fig. 2, items 13 col. 3, lines 24-31);

- a portable housing accommodating the printed circuit board, the portable telephone housing configured by

- a resin (plastic, fig. 1, item 32) housing (i.e., protector) covering the rear front surface of the printed board (col. 2, lines 52-56);

- wherein a part of the printed board, on which the internal antenna is disposed, is accommodated in the resin housing. (fig. 2, items 11 and 140; col. 3, lines 20-22);

The Yokohama reference however does not specifically disclose wherein external surface forming an external surface of the portable telephone, and wherein the metal housing covers the front surface of the printed circuit board while leaving at least the part of the printed circuit board on which the internal antenna is disposed is covered by the metal housing.

The Crowley reference however specifically discloses wherein a mobile phone Fig.1 implements a metal housing cover 16 fabricated from a metal such as aluminum. Col.3 line 5-10.

It would have been obvious to one of ordinary skill in art to implement the metal housing cover as taught by Crowley to the mobile device of Yokohama in order to

provide the mobile device with a structural tough and strong material to protect the mobile device from any type of physical damage that can occur with accidents and wear and tear conditions caused by the user.

Consider claim 2 & 6. Yokohama and Crowley combined teaches the resin housing and the metal housing are joined with each other by a curved line from a view point of the side of the radio terminal device. (Fig.2, items 15a and 15b)

Consider claim 3 & 7. Yokohama and Crowley combined teaches the printed board 11 and the metal housing 15a are connect with each other electrically 16a (fig. 2; col. 4, lines 1-6).

Consider claim 5 & 8 & 9. Yokohama and Crowley combined teaches wherein the internal antenna is disposed near an end portion in the remaining part of the printed board (fig. 2, item 13, col. 3 lines 20-22).

Allowable Subject Matter

4. Claims 10 and 11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Consider claims 10 and 11, Yokohama and Crowley combined teaches wherein the radio terminal device according to claim 2 and 6, Crowley however does teach wherein a metal plating does have retain a inflection point (**Fig.2 aluminum back plating 34 forms an inflection point while aligning to the "back" of the mobile device)**

However, the metal back portion inflection point is specifically on an exterior casing and therefore does not specifically reading wherein the curved line that joins the resin housing with the metal housing forms an inflection point on a side wall of the portable telephone housing between uppermost and lowermost portions of the portable telephone housing.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to RICHARD CHAN whose telephone number is (571)272-0570. The examiner can normally be reached on Mon-Fri 10AM-6PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on (571)272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Nay A. Maung/
Supervisory Patent Examiner, Art Unit 2618

/Richard Chan/
Examiner, Art Unit 2618